

Listing of Claims:

No claim amendments are being presented at this time. This listing of claims is provided merely for the convenience of the Examiner, and will replace all prior versions and listings of the claims.

Claims 1-33 (cancelled).

34. (Previously presented) An apparatus comprising a circuit that monitors a cumulative amount of charge associated with a power supply, wherein power is removed from a load when the cumulative amount of charge is at least equal to a predetermined value from a profile of said values that decrease in magnitude during application of power to said load.

35. (Previously presented) The apparatus of claim 34 wherein the load is a motor.

36. (Previously presented) The apparatus of claim 34 further comprising drivers that are disabled responsive to the cumulative amount of charge being at least equal to the predetermined value.

37. (Previously presented) The apparatus of claim 34 wherein the predetermined value is based on an amount of charge that will cause a spike when the amount of charge is removed from the power supply.

38. (Previously presented) The apparatus of claim 34 wherein the cumulative amount of charge is monitored with an integrative device.

39. (Previously presented) The apparatus of claim 34 wherein the load is an inductive type.

40. (Previously presented) The apparatus of claim 34 wherein the circuit minimizes a spike on the power supply.

41. (Previously presented) A system comprising:
a motor coupleable to a power supply;
a sensor coupleable to the motor; and
a control circuit including an input and an output, the input being coupleable to the sensor, wherein the control circuit provides an output signal on the output responsive to an amount of charge provided from the power supply that is at least equal to a predetermined threshold, the predetermined threshold selected from a profile of said thresholds that decrease in magnitude during application of power to said motor.

42. (Previously presented) The system of claim 41 wherein the control circuit includes an integrator coupled between the input and the output.

43. (Previously presented) The system of claim 41 wherein the control circuit includes a comparator coupled between the input and the output.

44. (Previously presented) The system of claim 43 wherein the comparator is a one-shot type.

45. (Previously presented) The system of claim 41 further comprising motor drivers that are coupleable to the motor and the output, wherein the motor drivers are controlled responsive to the output signal.

46. (Previously presented) The system of claim 45 wherein the motor drivers are disabled responsive to the amount of charge being at least equal to the predetermined threshold.

47. (Previously presented) A method comprising the steps of:
monitoring a charge amount being removed from a power supply; and
decoupling the power supply from a load responsive to the charge amount being at least equal to a predetermined level selected from a profile of said levels that decrease in magnitude during application of power to said load.

48. (Previously presented) The method of claim 47 wherein the load is an inductive type.

Claims 49-50 (cancelled).

51. (Previously presented) The method of claim 47 wherein the power supply is decoupled from the load for a predetermined time.

52. (Previously presented) The method of claim 47 wherein the amount of charge being removed from the power supply of the monitoring step is monitored by sensing an amount of current flowing through the load.

53. (Previously presented) The method of claim 52, wherein the monitoring step further comprises accumulating charge in relation to the sensed amount of current flowing through the load.

54. (Previously presented) The apparatus of claim 35, wherein the profile is applied during acceleration of the motor to an operational velocity.

55. (Previously presented) The system of claim 41, wherein the profile is applied during acceleration of the motor to an operational velocity.

56. (Previously presented) The method of claim 47, wherein the load of the decoupling step comprises a motor, and wherein the profile is applied during acceleration of the motor to an operational velocity.